



## M 6.8, EASTERN HONSHU, JAPAN

Origin Time: Wed 2008-07-23 15:26:19 UTC Location: 39.80°N 141.46°E Depth: 108 km

## PAGER Version 5

Created: 6 days, 0 hrs after earthquake

## **Estimated Population Exposed to Earthquake Shaking**

ESTIMATED POPULATION EXPOSURE (k = x1000)		*	190k*	2,719k*	3,442k	3,707k	154k	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	none	none	none	V. Light	Light	Moderate	Moderate/Heavy	Heavy	V. Heavy
	Vulnerable Structures	none	none	none	Light	Moderate	Moderate/Heavy	Heavy	V. Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

Population Exposure population per ~1 sq. km from Landscan 2006 Selected City Exposure

140 Kamiiso iHakodate  144  VI Misawa VI Hanamaki VI Kamaishi VI Ichinoseki VI Miyako VI Ichinohe VI Akita VI Sendai VI Sendai 1 V Aomori IV Niigata bold cities appear on map (k = x Shaking Intensity	239k 42k 73k 43k 62k 51k 15k 320k ,037k 298k 505k
Hirosaki  Hirosa	42k 73k 43k 62k 51k 15k 320k ,037k 298k
Hirosaki  Hirosa	73k 43k 62k 51k 15k 320k ,037k
Will Hanamaki VI Kamaishi VI Ichinoseki VI Miyako VI Ichinohe VI Akita VI Sendai VI Sendai 1 V Aomori IV Niigata bold cities appear on map (k = x Shaking Intensity	43k 62k 51k 15k 320k ,037k 298k
Mutsu  Aomori  Hirosaki  VI Miyako  VI Ichinohe  VI Akita  VI Sendai  VI Sendai  VI Aomori  IV Niigata  bold cities appear on map (k = x  Shaking Intensity	62k 51k 15k 320k ,037k 298k
Aomori  Hirosaki  VI Miyako  VI Ichinohe  VI Akita  VI Sendai  V Aomori  IV Niigata  bold cities appear on map (k = x  Shaking Intensity	51k 15k 320k ,037k 298k
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Kamiiso H-takodate	144
Hanamaki	
Kitakami Kamaishi Yuzawa	
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Tsuruoka	40°
Akita • Morioka   Hanamaki	
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km Iwariuma V	
Yonezawa Yamagata Sendai Nanura Marura Marur	38°
75 Fukúshima	- 36

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. A magnitude 6.6 earthquake 365 km Northeast of this one struck Niigata, Japan on October 23, 2004 (UTC), with estimated population exposures of 481,000 at intensity IX or greater and 386,000 at intensity VIII, resulting in an estimated 67 fatalities. On July 12, 1993 (UTC), a magnitude 7.7 earthquake and tsunami 389 km Northeast of this one struck Hokkaido Nansei-Oki, Japan, with estimated population exposures of 4,000 at intensity VIII and 84,000 at intensity VII, resulting in an estimated 230 fatalities. Recent earthquakes in this area have caused, landslides and fires that may have contributed to losses.

This information was automatically generated and has not been reviewed by a seismologist.